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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,557	03/30/2004	Sang-Tae Kim	04-09	3682
	7590 04/27/2007 OF MONICA H CHOI		EXAMINER	
P O BOX 3424			MAGEE, CHRISTOPHER R	
DUBLIN, OH 430160204			ART UNIT	PAPER NUMBER
			. 2627	
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SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	NTHS	04/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

·	Application No.	Applicant(s)
	10/812,557	KIM ET AL.
Office Action Summary	Examiner	Art Unit
	Christopher R. Magee	2627
The MAILING DATE of this communication a	ppears on the cover sheet wit	th the correspondence address
eriod for Reply		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MON tute, cause the application to become AB.	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
tatus		
1) Responsive to communication(s) filed on 13	April 2007.	
	nis action is non-final.	
3) Since this application is in condition for allow		ers, prosecution as to the merits is
closed in accordance with the practice under		
sposition of Claims		
4)⊠ Claim(s) <u>1-5,7-9,15 and 16</u> is/are pending in	the application	
4a) Of the above claim(s) is/are withdi		
5) Claim(s) is/are allowed.	dwn nom consideration.	
6) Claim(s) 1-5 and 7-9 is/are rejected.		
7)⊠ Claim(s) 15 and 16 is/are objected to.	•	
8) Claim(s) are subject to restriction and	/or election requirement.	·
oplication Papers		
The specification is objected to by the Examin	· · ·	
10) ☐ The drawing(s) filed on 30 March 2004 is/are		ected to by the Eveniner
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the corre	-	
11) The oath or declaration is objected to by the I		
iority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreig	an priority under 35 H S C &	110(a) (d) or (f)
a) ⊠ All b) ☐ Some * c) ☐ None of:	gn priority under 33 0.3.0. §	119(a)-(u) or (i).
1.⊠ Certified copies of the priority docume	nts have been received	
2. Certified copies of the priority docume		polication No.
3. ☐ Copies of the certified copies of the pri		
application from the International Bure	· ·	3
* See the attached detailed Office action for a lis	st of the certified copies not r	eceived.
achment(s)	🗖 .	,
☑ Notice of References Cited (PTO-892)☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) LInterview Su Paper No(s)	ımmary (PTO-413) /Mail Date
Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Inf	ormal Patent Application
Paper No(s)/Mail Date	6) Other:	<u>-</u> .

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/13/2007 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-3 and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (Korean Patent Application 10 20000025857).
 - Regarding claim 1, Lee teaches a disc drive comprising:
 - a tray 120 for holding a disc D;
- a lower case [not numbered but shown on page 20-17] on which the tray 120 is installed to be slid;
 - a loading motor 130 for providing a driving force that slides the tray; and
- a spindle motor [not numbered; inherent property of disc drive] having a turntable 122 and being installed on the tray 120,

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wherein the disc is secured to the turntable for being rotated by the spindle motor that is installed on the tray[Figure 4 on page 20-9],

and wherein the lower case comprises:

a first region in which the tray is slid and a second region 100, extended sideways from the first region.

Regarding claim 2, Lee shows a fixing unit 123 disposed by the turntable 122 for securely holding the disc to the turntable [Figure 12 on page 20-13].

Regarding claim 3, Lee shows the fixing unit 123 securely holds the disc to the turntable at a perimeter of a clamping hole of the disk 1 [Figure 13 on page 20-14].

Regarding claim 7, Lee shows an optical pickup 124 installed on the tray, the optical pickup moving in a radial direction of the optical disc to write and/or reproduce information on the optical disc [Figure 16 on page 20-17].

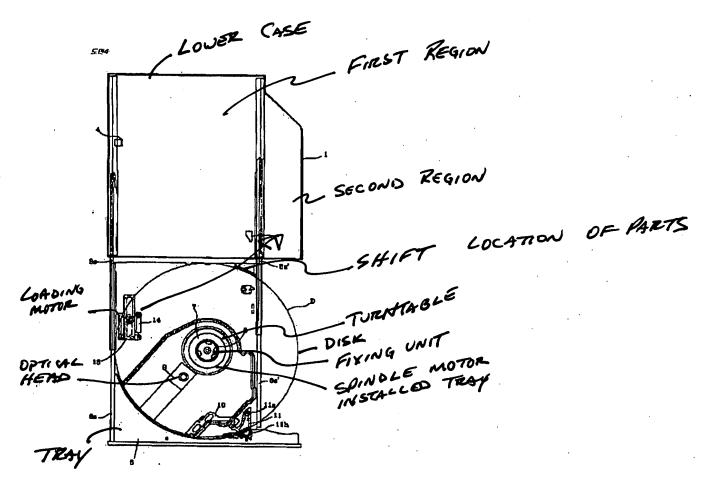
Regarding claims 8 and 9, Lee shows the disc drive is a slim vertical optical disc drive and is a half-height type disc drive [Figure 2 on page 20-8 and Figure 5 on page 20-10].

Referring to claim 1, Lee does not teach the loading motor 130 disposed in the second region. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to shift the location of the loading motor to the second region area.

The rationale is as follows: One of ordinary skill in the art at the time of the invention would have been motivated to shift the location of the loading motor to the second region area because it is mere shift location of parts. Moving the loading motor to the second region will not hamper or modify the overall operation of the disc drive. *In re Japikse*, 86 USPQ 70 (CCPA 1950).

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- 3. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (Korean Patent Application 10 20000025857) as applied to claim 1 above, and further in view of Konno et al (hereinafter Konno) (US 6,907,611 B2).
- Regarding claims 4 and 5, Lee shows all the features, *supra*, but does not show the fixing unit comprised of a plurality of hooks that elastically engage with a perimeter of a clamping hole of the disc and are disposed around a shaft of the spindle motor and above the turntable.

Konno teaches a clamp mechanism 30 that comprises of turntable 12, a rotation motor 32, a movable member 34, a spring 35 and a plurality of chuck claws 36 (i.e., hooks) functioning as

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holding members. The chucking claws 36 are disposed around a shaft of the spindle motor and above the turntable [Figures 2 and 3; col. 5, lines 40-45; col. 5, lines 55-57].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the fixing device of Lee with the chucking claws of Konno.

The rationale is as follows: One of ordinary skill in the art at the time of the invention would have been motivated to provide the fixing device of Lee with the chucking claws of Konno in order to offer clamping and unclamping operations for sustaining a recording medium on a turntable, independently of which attitude the recording medium takes [Konno; col. 2, lines 50-57].

Allowable Subject Matter

Claims 15 and 16 are objected to as being dependent upon a rejected base claim, but 4. would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

5. Applicant's arguments filed 4/13/2006 have been fully considered but they are not persuasive. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "the cross sectional view of FIG. 5 of the Present Application shows the wide second region 113 holding the loading motor 170 without being stepped upwardly") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification

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are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir.

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1993).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christopher R. Magee whose telephone number is (571) 272-

7592. The examiner can normally be reached on M-F, 8: 00 am-4: 30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Andrea Wellington can be reached on (571) 272-4483. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher K. Magee

Patent Examiner Art Unit 2627

SUPERVISORY PATENT EXAMINER

April 25, 2007

crm